

ATTACHMENT B (CLAIM AMENDMENTS)

IN THE CLAIMS:

Claims 1-8 (cancelled)

9. (previously withdrawn) A method of engrafting human bone marrow CD34+CD38- hematopoietic progenitor cells in a human, the method comprising the steps of:

i) contacting the isolated CD34+CD38- hematopoietic progenitor cells with human brain endothelial cells containing a factor or factors that expand the CD34+CD38- hematopoietic progenitor cells;

ii) co-culturing the contacted CD34+CD38- hematopoietic progenitor cells and endothelial cells in the presence of at least one cytokine in an amount sufficient to support amplification/expansion of said CD34+CD38- hematopoietic progenitor cells;

iii) isolating the amplified/expanded CD34+CD38- hematopoietic progenitor cells from the culture; and

iv) infusing the amplified/expanded CD34+CD38- hematopoietic progenitor cells into said human.

10. (previously withdrawn) A method of engrafting human bone marrow CD34+CD38- hematopoietic progenitor cells in a human, the method comprising the steps of:

i) isolating CD34+CD38- hematopoietic progenitor cells from human bone marrow;

ii) contacting the isolated CD34+CD38- hematopoietic progenitor cells with human brain endothelial cells containing a factor or factors that expand the CD34+CD38- hematopoietic progenitor cells;

iii) co-culturing the contacted CD34+CD38- hematopoietic progenitor cells and endothelial cells in the presence of at least one cytokine in an amount sufficient to support amplification/expansion of said CD34+CD38- hematopoietic progenitor cells;

iv) isolating the amplified/expanded CD34+CD38- hematopoietic progenitor cells from the culture; and

v) infusing the amplified/expanded CD34+CD38- hematopoietic progenitor cells into said human.

11. (previously withdrawn) The method according to Claim 9 or 10, wherein said cells are isolated from the bone marrow of the human.

12. (previously withdrawn) The method according to Claim 9 or 10, wherein said cells are isolated from the bone marrow of the human in need of said CD34+CD38- hematopoietic progenitor cells.

13. (previously withdrawn) The method according to Claim 9 or 10, wherein said CD34+CD38- hematopoietic progenitor cells are isolated from the bone marrow of a donor.

Claims 14-25 (cancelled)